

Non invasive Textile-based flexible sensors for biomedical monitoring

Abstract: The development of innovative systems capable of improving people's health and aging is essential for prevention and early diagnosis. Textile sensors are innovative solutions that allow the integration of sensors into a flexible substrate with a low impact on users' lives thanks to maximum adaptability and wearability.

In this talk we will investigate the operating principle and the realization of textile sensors useful for analyzing and studying biomedical parameters for a large number of people.

In addition, the main applications are reported to highlight the ability of these sensors to improve the quality of life of subjects, for example to analyze the quality of sleep or to monitor walking activity in the long term.